

(주)TM Korea

## APPROVAL SHEET

| NO | MODEL        | FREQUENCY       |
|----|--------------|-----------------|
| 1  | HW- 2450H- S | 2400 - 2483 MHz |

| 공 급 업 체 |     |     | 승 인 업 체 |     |     |
|---------|-----|-----|---------|-----|-----|
| 작 성     | 검 토 | 승 인 | 작 성     | 검 토 | 승 인 |
|         |     |     |         |     |     |
|         |     |     |         |     |     |



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## 제품 사양서 (ANTENNA SPECIFICATION)

1. 품명: HW - 2450H - S

2. 적용: 본 사양서는 2.4 GHz 대역 내장형 HELICAL ANTENNA에 대해 규정한다.

3. ANTENNA 사용 조건

☐휴대    ☒고정    ☐이동    ☒실외    ☒실내    ☒기타 (                      )

4. ANTENNA 형상

첨부 도면과 같음.

5. 전기적 특성 및 성능

실사용조건 또는 그에 상응하는 적합한 상태에서 다음을 만족 할 것.

| No.  | ELECTRICAL DATA   | SPECIFICATIONS      | REMARK |
|------|-------------------|---------------------|--------|
| 5. 1 | FREQUENCY RANGE   | 2400 - 2483 MHz     |        |
| 5. 2 | IMPEDANCE         | 50 $\Omega$ NOMINAL |        |
| 5. 3 | V . S . W . R     | LESS THAN 1: 2.0    |        |
| 5. 4 | GAIN              | 0 dBi $\pm$ 0.5 dBi |        |
| 5. 5 | RADIATION PATTERN | OMNI - DIRECTIONAL  |        |
| 5. 6 | POLARIZATION      | VERTICAL            |        |

6. 기구적 사양 및 특성

| No.  | MECHANICAL           | SPECIFICATIONS   | REMARK     |
|------|----------------------|------------------|------------|
| 6. 1 | SIGNAL SPRING        | $\Phi$ 0.5 PWG   | Ni-PLATING |
| 6. 2 | ANTENNA TOTAL LENGTH | 7.7 $\pm$ 0.5 mm |            |

TOL Unless Noted

DIMENSION

mm

No

DATE

REVISION

CHECKER

X. =  $\pm 0.5$

X.X =  $\pm 0.1$

X.XX =  $\pm 0.05$

SCALE

MATERIAL

FINISH

PWG

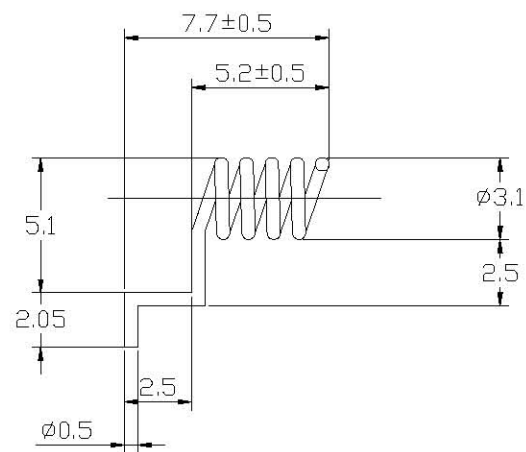
NI-PLATING

1

20 . . . .

2

20 . . . .



TITLE

SPRING

MODEL

HW-2450H-S

Drawn

Checked

Approval

Date

DWG No.

File Name

J.K,BAE

C.G,NAM

2008.05.26

080526-1

TM Korea

No.

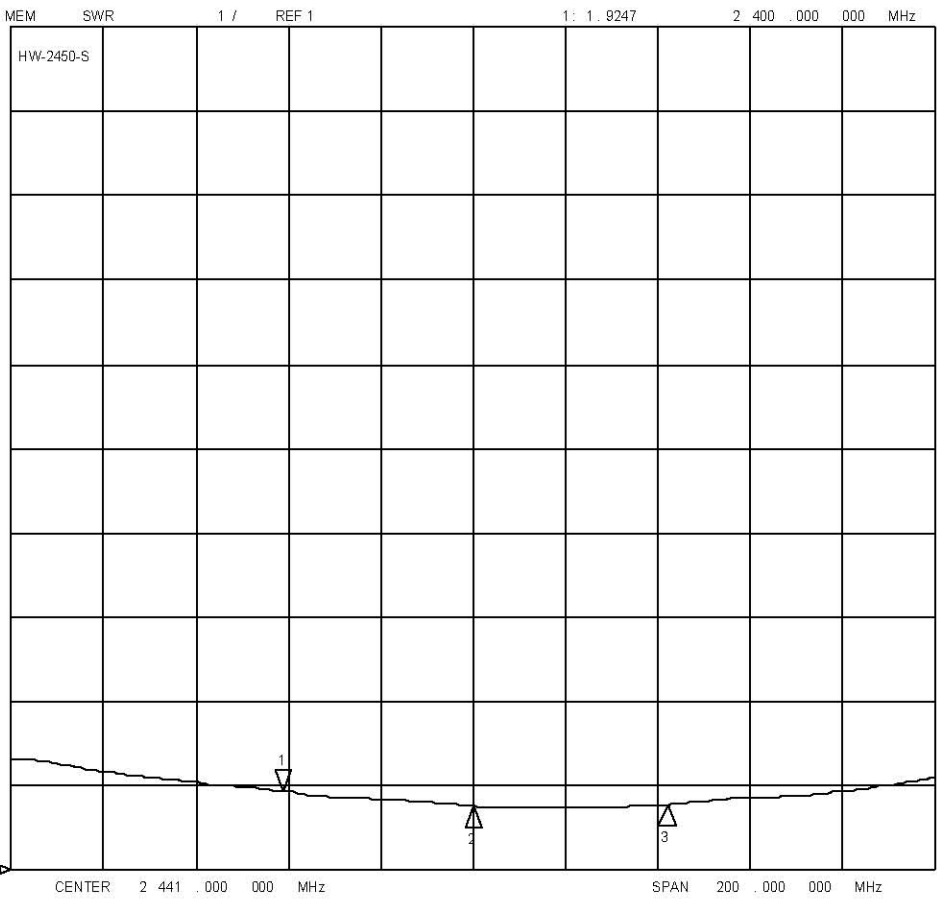
PART NAME

MATERIAL

FINISH

25 May 2008 19:04:40

CH1



CH1 Markers

2 : 1.7510  
2.44100 GHz

3 : 1.7717  
2.48300 GHz

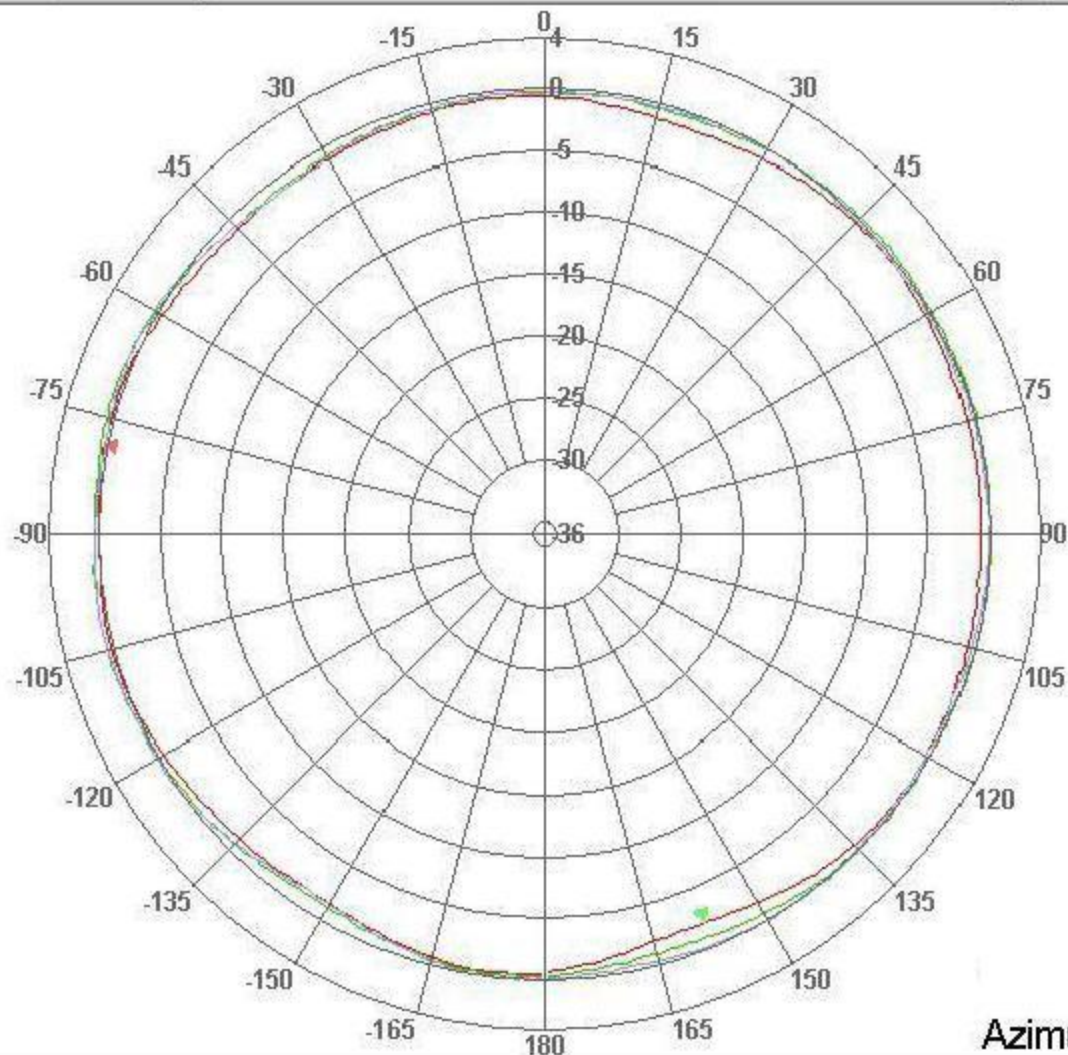
Operator: Sample  
TM KOREA

Date

5/25/08 4:05 PM

No.1

Amplitude (dBi)



Azimuth [deg]

Side lobes

Database

Ax. Ratio

Side Lobes

| No. | Ampl | Deg |
|-----|------|-----|
|     |      |     |
|     |      |     |
|     |      |     |
|     |      |     |
|     |      |     |
|     |      |     |
|     |      |     |

Ampl. Color



Visible Section

☒ Amplitude☐ Phase

Not Inverted

Not Aligned

No Skirt

Not Normalized

Not Rotated

Phase wrapped

Ends Not Connected

Log. Display

|  | File Name       |  |  | Freq.   |      | Ch. | Beam | Sw tch | Beam Peak [dBi] |         |       | Beam Width [deg] |       |        | Null Depth [dBi] |        |       | Avg.  | Dir. | Gain | Norm.  | Phase |
|--|-----------------|--|--|---------|------|-----|------|--------|-----------------|---------|-------|------------------|-------|--------|------------------|--------|-------|-------|------|------|--------|-------|
|  |                 |  |  | GHz     |      |     |      |        |                 | Value   | [deg] | P                | Value | At dBi | P                | Value  | [deg] |       |      |      |        |       |
|  | sample1-CAL.nff |  |  | 2.400 G | 0.00 | CH1 |      |        | 0.26            | -78.50  | P     | Inf              | 3.00  | P      | -2.21            | 157.50 | P     | 0.23  | 0.00 | 0.00 | -39.89 |       |
|  | sample1-CAL.nff |  |  | 2.450 G | 0.00 | CH1 |      |        | 0.00            | -73.50  | P     | Inf              | 3.00  | P      | -1.30            | 152.50 | P     | -0.03 | 0.00 | 0.00 | -39.75 |       |
|  | sample1-CAL.nff |  |  | 2.500 G | 0.00 | CH1 |      |        | -0.21           | -100.50 | P     | Inf              | 3.00  | P      | -1.61            | 146.50 | P     | -0.22 | 0.00 | 0.00 | -40.06 |       |
|  |                 |  |  |         |      |     |      |        |                 |         |       |                  |       |        |                  |        |       |       |      |      |        |       |
|  |                 |  |  |         |      |     |      |        |                 |         |       |                  |       |        |                  |        |       |       |      |      |        |       |